

OCT 29 2002

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TECHNOLOGY CENTER 2800IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number: 09/682,007  
 Application Filed: July 9, 2001  
 Applicant: LeRoy David Dickson  
 Title of Invention: Enhanced Volume Phase Grating with High Dispersion,  
                          High Diffraction Efficiency and Low Polarization Sensitivity  
 Examiner: Audrey Y. Chang  
 Art Unit: 2872  
 Attorney Docket Number: 07032001

Assistant Commissioner for Patents  
 Washington, DC 20231

RESPONSE TO SECOND ADVISORY ACTION

Madam:

In response to the Advisory Action mailed October 7, 2002, I am including below all of the amended claims and the amended section of the specification. I have also included a clean version of the amended claims and a clean version of the amended portion of the specification. The amended claims are the independent claim 9 and the dependent claims 12, 15 and 16. Dependent claims 10, 11, 13 and 14 did not require any amendments and so they will be unchanged from the January 30, 2002 submittal. However, for clarity, all of the claims, including the non-amended claims 10, 11, 13 and 14 are included in this clean version of the claims below. Therefore, this present document will provide all eight claims (9 to 16) of patent application 09/682,007 in their final clean form.

Amendments are indicated by underline and deletions are indicated by ~~strikethrough~~.

AMENDMENT OF THE SPECIFICATION:

On page 11 of the specification, beginning with Equation (5), amend the page as follows:

$$(5) \underline{\Delta n = \frac{\lambda}{T} \frac{2s-1}{2} \sqrt{C_R C_S}} = \frac{\lambda}{T} \left( \frac{2s-1}{2} \right) \sqrt{(\cos \alpha)(\cos \alpha - \frac{\lambda}{nd} \tan(\frac{\beta-\alpha}{2}))}$$

where